CLAIMS:

1. A *Streptococcus pneumoniae* protein or polypeptide having a sequence selected from those shown in table 1.

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- 2. A *Streptococcus pneumoniae* protein or polypeptide having a sequence selected from those shown in table 2.
- 3. A protein or polypeptide as claimed in claim 1 or claim 2 provided in substantially pure form.
 - 4. A protein or polypeptide which is substantially identical to one defined in any one of claims 1 to 3.
- 15 5. A homologue or derivative of a protein or polypeptide as defined in any one of claims 1 to 4.
 - 6. An antigenic and/or immunogenic fragment of a protein or polypeptide as defined in Tables 1-3.

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- 7. A nucleic acid molecule comprising or consisting of a sequence which is:
 - (i) any of the DNA sequences set out in Table 1 or their RNA equivalents;
- 25 (ii) a sequence which is complementary to any of the sequences of (i);
 - (iii) a sequence which codes for the same protein or polypeptide, as those sequences of (i) or (ii);

a sequence which is substantially identical with any of those of (i), (ii)

(iv)

and (iii); (v) a sequence which codes for a homologue, derivative or fragment of a 5 protein as defined in Table 1. 8. A nucleic acid molecule comprising or consisting of a sequence which is: (i) any of the DNA sequences set out in Table 2 or their RNA equivalents; 10 (ii) a sequence which is complementary to any of the sequences of (i); (iii) a sequence which codes for the same protein or polypeptide, as those sequences of (i) or (ii); 15 (iv) a sequence which is substantially identical with any of those of (i), (ii) and (iii); (v) a sequence which codes for a homologue, derivative or fragment of a 20 protein as defined in Table 2. 9. The use of a protein or polypeptide having a sequence selected from those shown in Tables 1-3, or homologues, derivatives and/or fragments thereof, as an immunogen and/or antigen. 25 10. An immunogenic and/or antigenic composition comprising one or more proteins or polypeptides selected from those whose sequences are shown in Tables 1-3, or homologues or derivatives thereof, and/or fragments of any of these. 30 11. An immunogenic and/or antigenic composition as claimed in claim 10 which is

a vaccine or is for use in a diagnostic assay.

12. A vaccine as claimed in claim 11 which comprises one or more additional components selected from excipients, diluents, adjuvants or the like.

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- 13. A vaccine composition comprising one or more nucleic acid sequences as defined in Tables 1-3.
- 14. A method for the detection/diagnosis of *S.pneumoniae* which comprises the step of bringing into contact a sample to be tested with at least one protein or polypeptide as defined in Tables 1-3, or homologue, derivative or fragment thereof.
 - 15. An antibody capable of binding to a protein or polypeptide as defined in Tables 1-3, or for a homologue, derivative or fragment thereof.

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- 16. An antibody as defined in claim 15 which is a monoclonal antibody.
- 17. A method for the detection/diagnosis of *S.pneumoniae* which comprises the step of bringing into contact a sample to be tested and at least one antibody as define din claim 15 or claim 16.
- 18. A method for the detection/diagnosis of *S.pneumoniae* which comprises the step of bringing into contact a sample to be tested with at least one nucleic acid sequence as defined in claim 7 or claim 8.

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- 19. A method of determining whether a protein or polypeptide as defined in Tables 1-3 represents a potential anti-microbial target which comprises inactivating said protein or polypeptide and determining whether *S.pneumoniae* is still viable.
- 30 20. The use of an agent capable of antagonising, inhibiting or otherwise interfering

with the function or expression of a protein or polypeptide as defined in Tables 1-3 in the manufacture of a medicament for use in the treatment or prophylaxis of *S.pneumoniae* infection